

BOSS CE-2/CE-2B

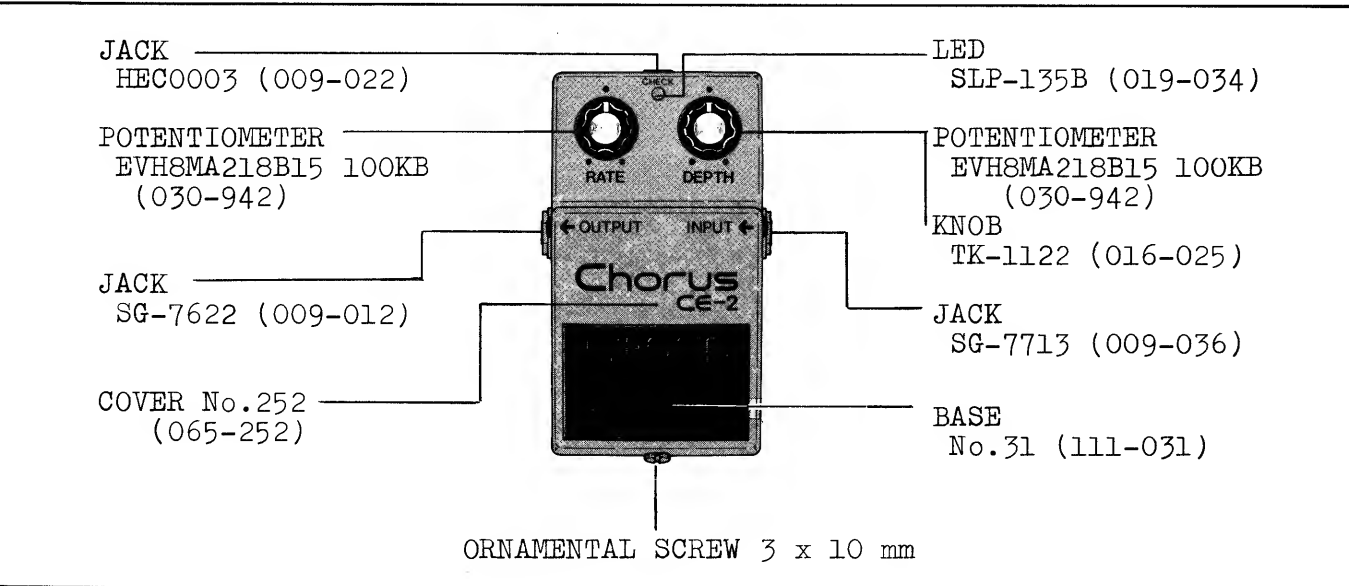
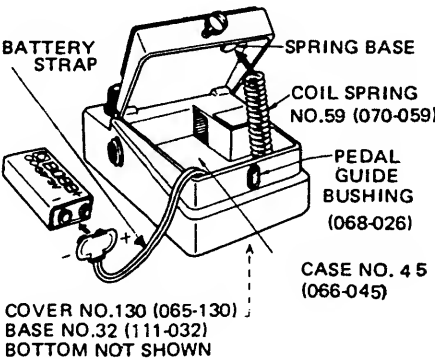
SERVICE NOTES First Edition

CE-2

※This notes includes the contents of the CE-2 First Edition and makes it obsolete.  
※CE-2のサービスノート第一版は廃版とし本サービスノートに併合します。

SPECIFICATIONS

- Power ..... Battery 9V (1), AC Adaptor  
Current requirements ..... DC9V, 9mA  
Control ..... Rate, Depth  
Others ..... Normal/Effect Changeover Switch, Effect Indicator (also for confirmation of Battery Check)  
Jack ..... Input, Output, AC Adaptor  
S/N ..... 90dB or more (IHF-A)  
Maximum allowable input ..... 0dBm (100Hz), -10dBm (1kHz)  
Input impedance ..... 470kΩ  
Output load impedance ..... Over 10kΩ  
Dimensions ..... 70(W) x 55(H) x 125(D)mm (2.8" x 2.2" x 4.9")  
Weight ..... 400g (0.88lbs.)

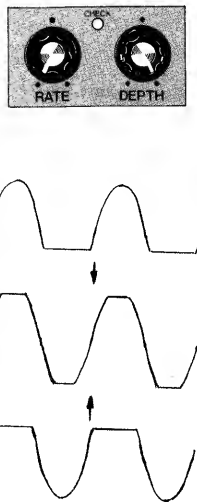
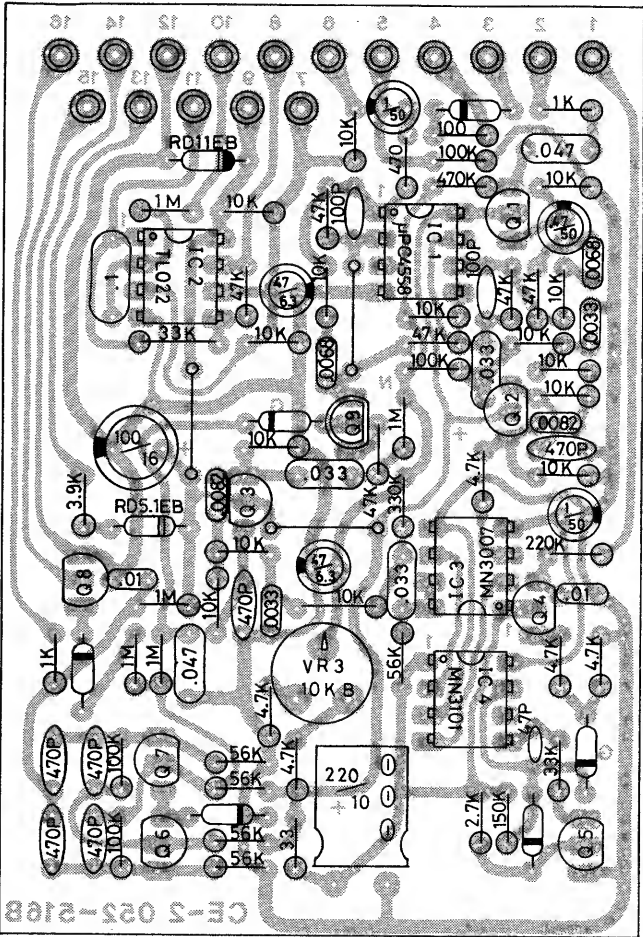


PARTS LIST

066-045	Case no.45 (light blue)	SEMICONDUCTOR	
065-252	Cover no.252 (light blue)	017-110	2SC945-P transistor
065-130	Cover no.130 bottom	017-104	2SC732TM-GR transistor
111-031	Base no.31 pedal matt	017-014	2SK30A-Y FET
111-032	Base no.32 bottom	018-014	1S2473 Diode
068-026	Guide bushing no.26	018-075	RD5.1EB zener
064-151	Holder no.151 washer LED	018-039	RD11EB zener
107-053	Cushion no.53 PCB	019-034	SLP-135B LED
065-153	Cover no.153 PCB	020-097	μPC4558C IC
070-059	Spring no.59 coil	020-164	TL022CP IC
016-025	Knob no.25 TK-1122	020-213	MN3007 BBD
030-942	Pot. EVH8MA218B15 100KB	020-224	MN3101 BBD driver
001-295	Switch J-M0404	009-022	Jack HEC-0003 adaptor
151-050B	PCB assy ET-50B	009-012	Jack SG-7622
052-516B	PCB ET-50B less parts	009-036	Jack SG-7713

ET-50B(151-050B) (PCB 052-516B)

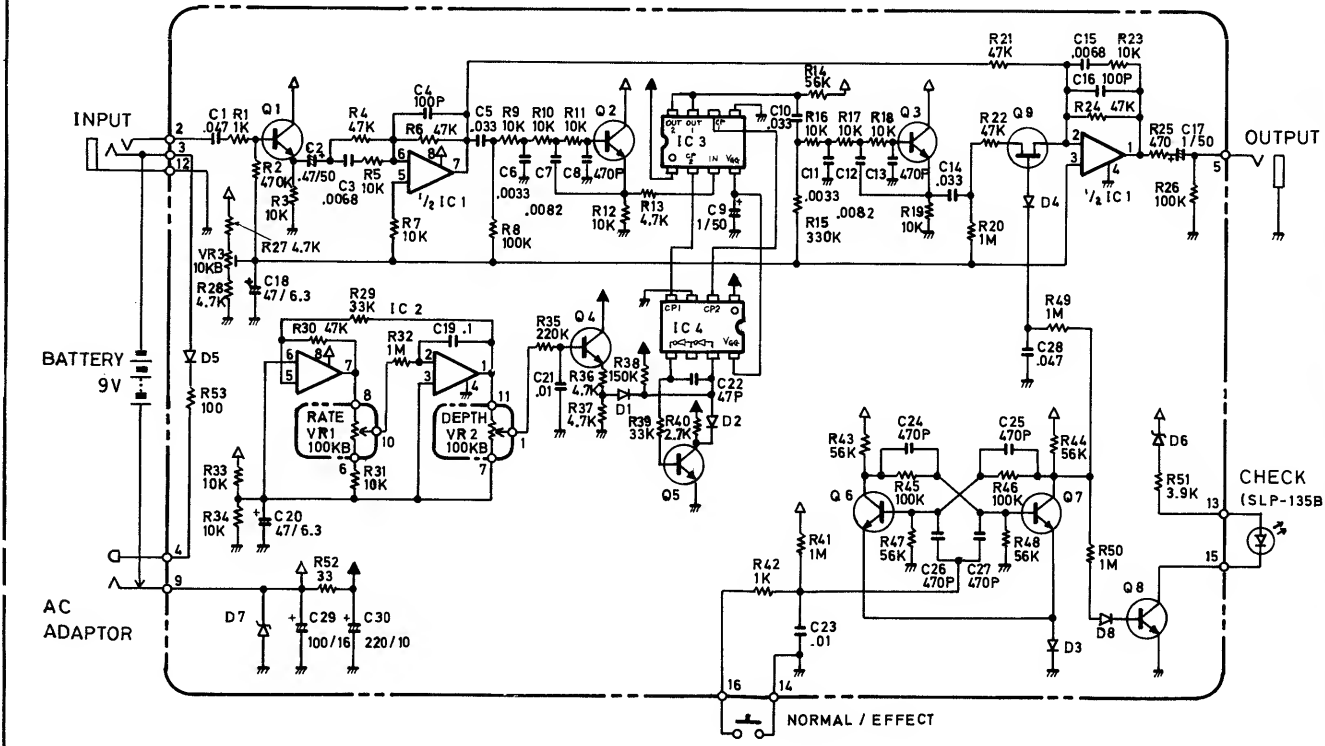
ADJUSTMENT



Set controls as shown left.  
Feed a signal 200Hz, + 3dBm, sine into INPUT Jack.  
Connect an oscilloscope to Q3 emitter.  
Determine the BBD bias by turning VR-3 to provide a centered operating-point.

- D1-D5,D8: 1S2473 or 1S1588  
D6 : RD5.1EB  
D7 : RD11EB  
IC1 : μPC4558C  
IC2 : TL022CP  
IC3 : MN3007(1024-stage)  
IC4 : MN3101(BBD driver)

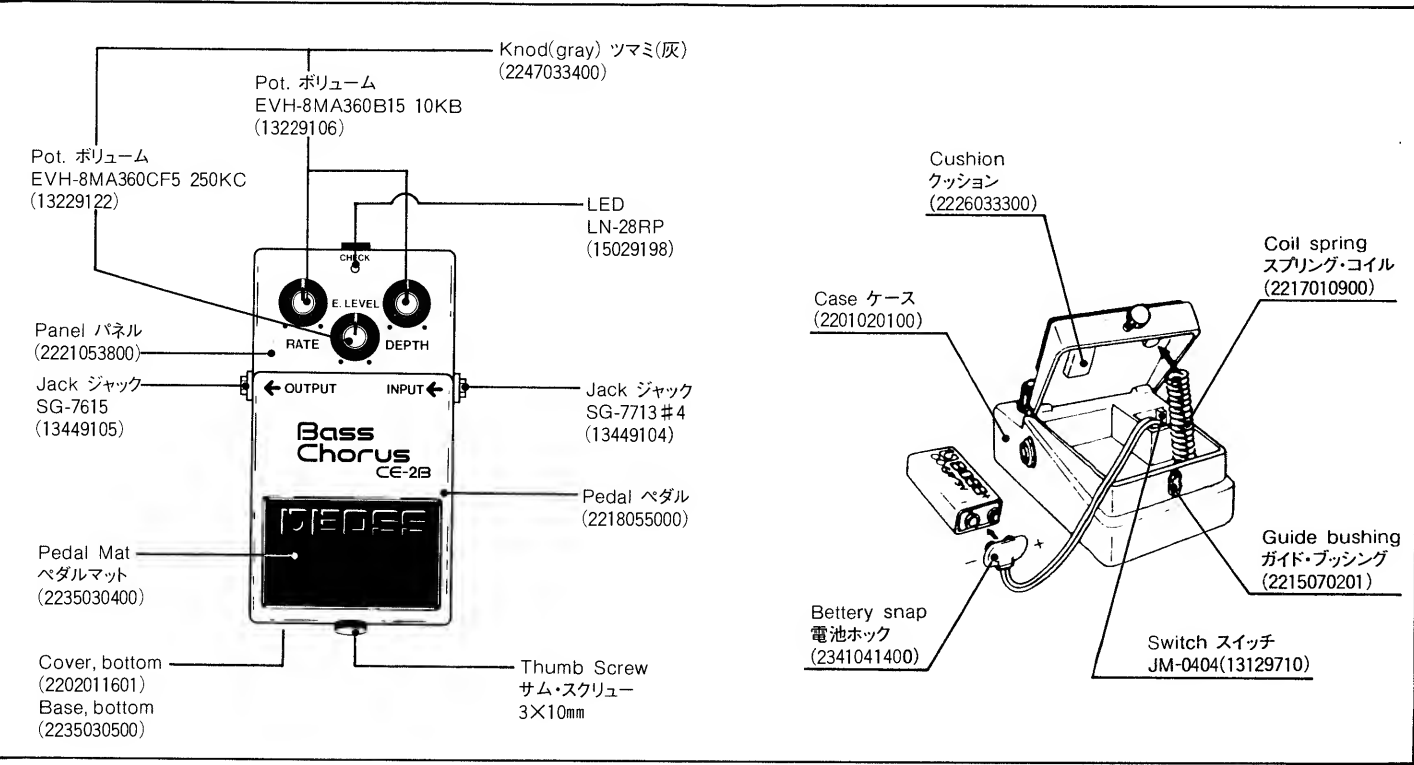
- CERAMIC  
○ ELR-25  
○ 1S2473  
○ Q1-3 2SC732TM-GR  
○ Q4-8 2SC945-P  
○ ELECTROLYTIC  
○ MYLAR



CE-2B

SPECIFICATIONS

Power Source.....	9V BatteryX1 or AC adaptor(BOSS ACA Series)	Output Load Impedance.....	More than 10kΩ
Current Draw.....	10mA@9V	Dimensions.....	70(W)×55(H)×125(D)mm
Residual Noise.....	Less than -100dBm(IHF-A)		2-3/4(W)×2-1/4(H)×5(D)in.
Maximum Input Level.....	0dBm(100Hz)	Weight.....	400g/14oz
Input Impedance.....	470kΩ		



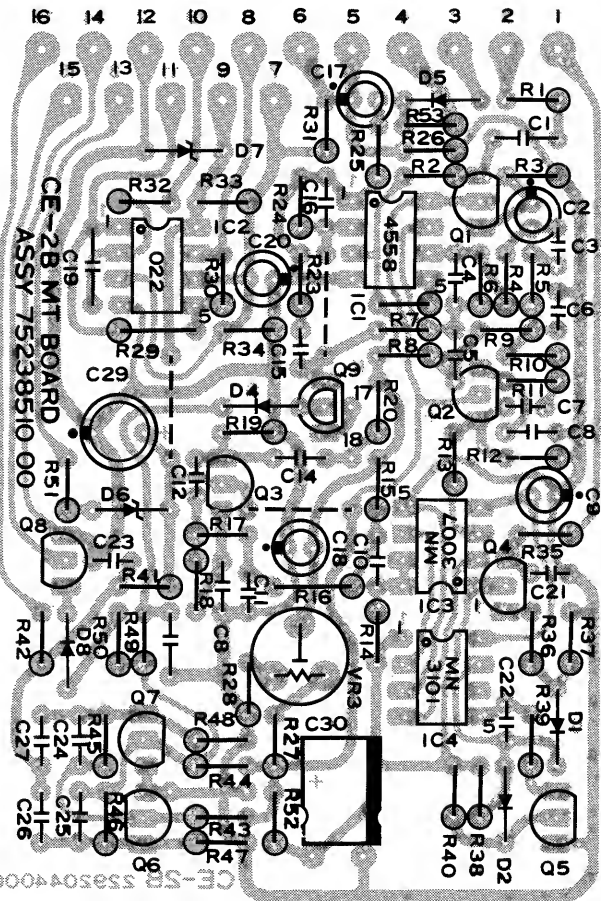
PARTS LIST

CASING		
2201020100	Case	
2221053800	Panel	
2202011601	Cover	
2235030500	Base	
2218055000	Pedal	
2235030400	Pedal Mat	
KNOB		
2247033400		grey
PCB ASSY		
7523851000	MT Board	(pcb 2292044000)
-----	LED Board	(pcb 2291049600)
IC		
15189102	NJM4558DD	Op amp
15189115	TL022CP	Op amp
15219205	MN3007	BBD
15169504	MN3101	BBD driver
TRANSISTOR		
15129120	2SC2240-GR	
15129113	2SC1740	
15139101	2SK30A-Y	FET

DIODE		
15019107	DS-442	
15019209T0	S-5500G	
15019526	RD5.6EB-3	zener
15029198	LN-28RP	LED
JACK		
13669704	HEC-0749-01-010	AC adaptor
13449105	SG-7615	
13449104	SG-7713#4	
SWITCH		
13129710	JM-0404	
POTENTIONMETER		
13229106	EVH-8MA360B15	10KB RATE, DEPTH
13229122	EVH-8MA360CF5	250KC E. LEVEL
13299195	EVN-D4AA00B14	10KB trimmer
MISCELLANEOUS		
2215070201	Guide Bushing	
2226033300	Cushion	
2217010900	Coil Spring	
2341041400	Battery Snap	
2216052900	Plastic Sheet	clear

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

MT BOARD  
7523851000 (pcb 2292044000)



ADJUSTMENT

1. Set controls as shown in Fig.1.
2. Feed a signal 200Hz, +3dBm, sine into INPUT Jack.
3. Connect an oscilloscope to Q3 emitter.
4. Determine the BBD bias by turning VR-3 to provide a centered operating-point as shown in Fig.2.

Fig.1

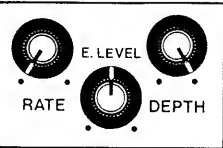
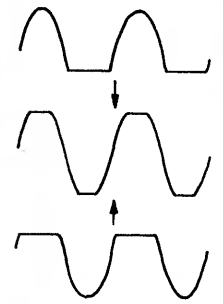
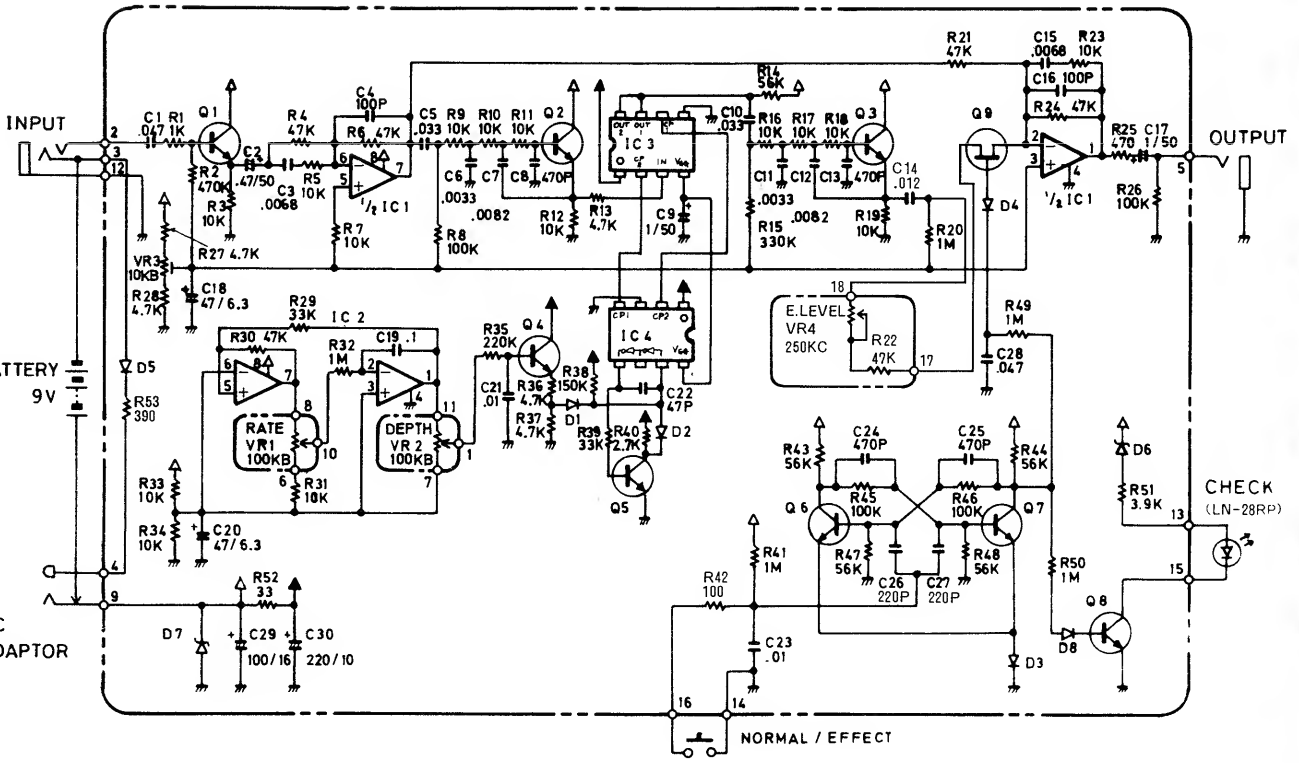


Fig.2



調整仕様

1. Fig-1の様にツマミ類をセットする。
2. INPUTに200Hz, +3dBmのサイン波を加える。
3. オシロスコープをQ3のエミッタに接続する。
4. VR-3を調整して波形がFig-2の様に上下対称になる様にする。



IC-1: NJM4558DD	Q1-Q3: 2SC2240GR	D1-D5, D8: 1S2473
IC-2: TL022CP	Q4-Q8: 2SC945P	D6: RD-5.6EB3
IC-3: MN3007(1024stag)	Q9: 2SK30A-Y	D7: S5500G
IC-4: MN3101(BBD Driver)		